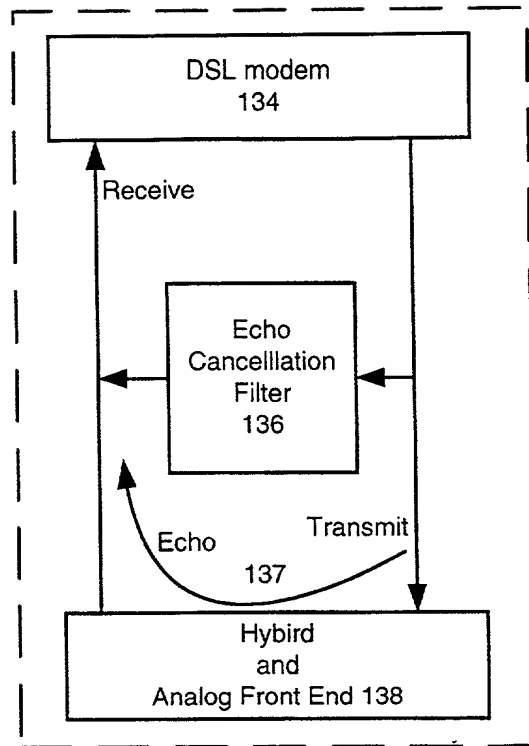
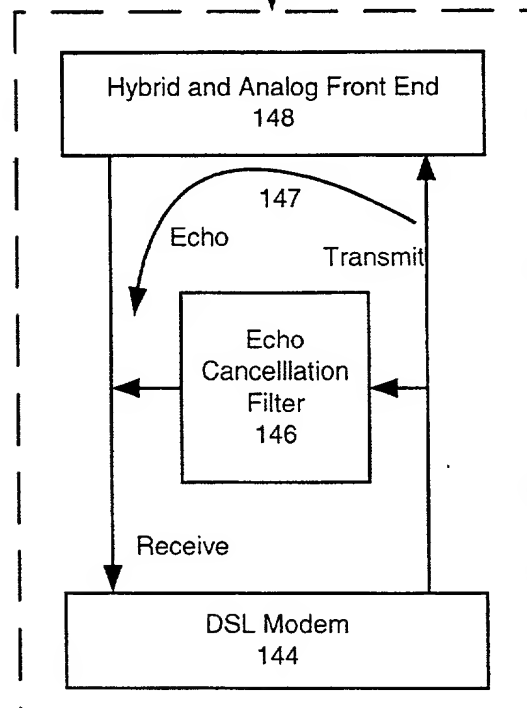


FIG. 1a



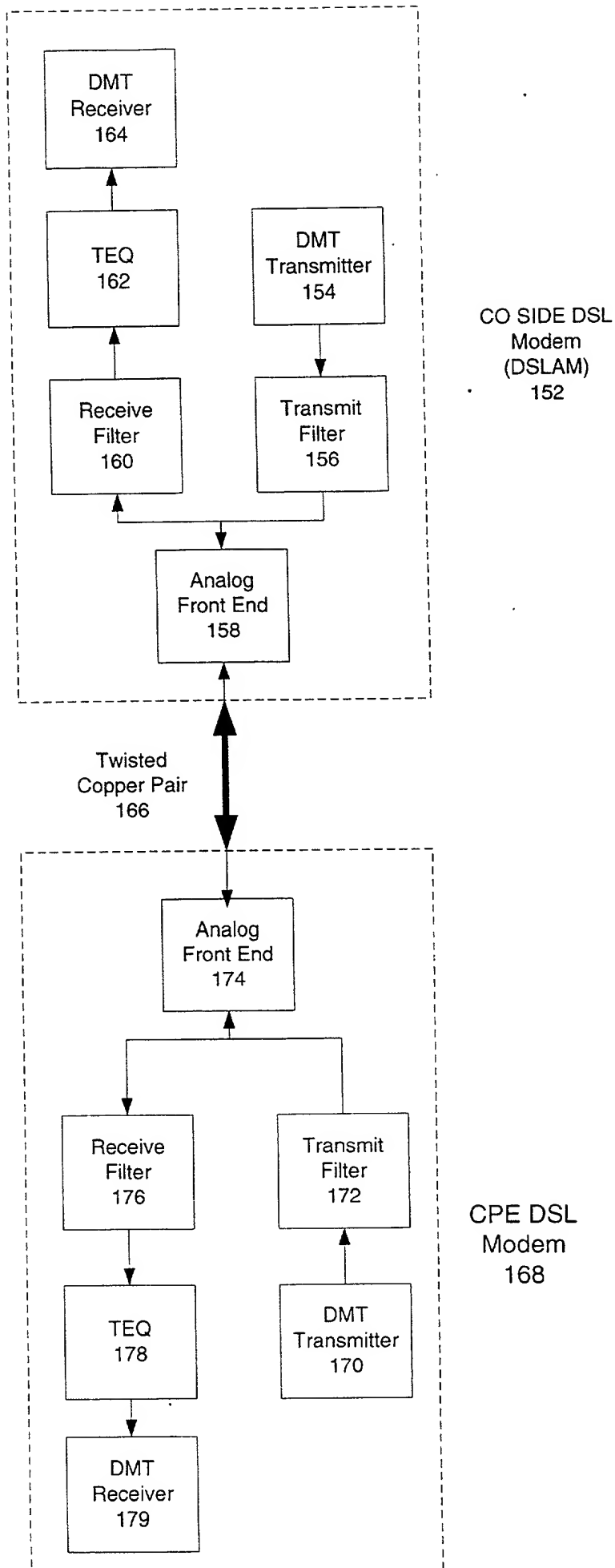
CO SIDE DSL  
Modem  
(DSLAM)  
132

Twisted  
Copper Pair  
140



CPE DSL  
Modem  
142

FIG. 1b



150

FIG. 1c

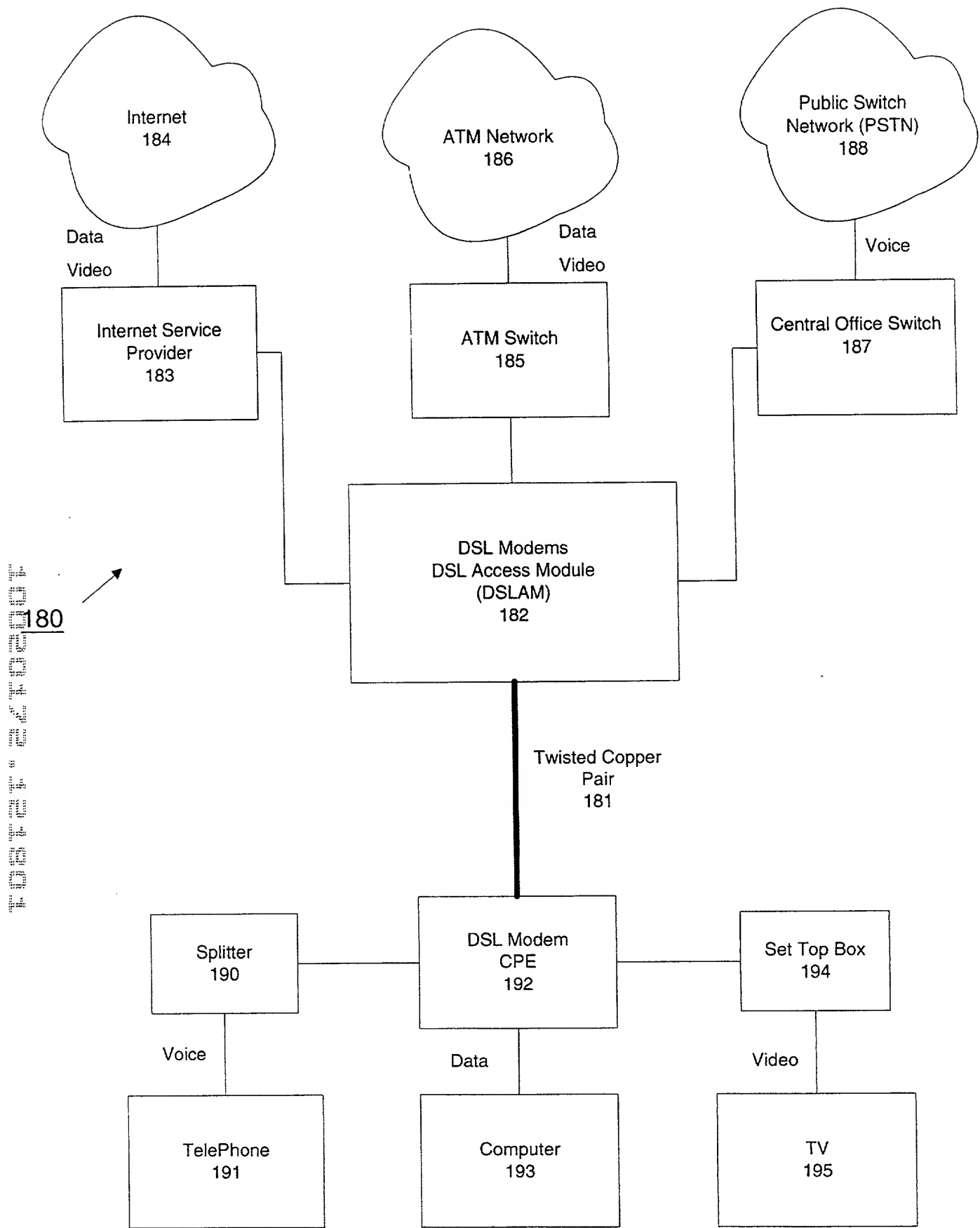


FIG. 1d

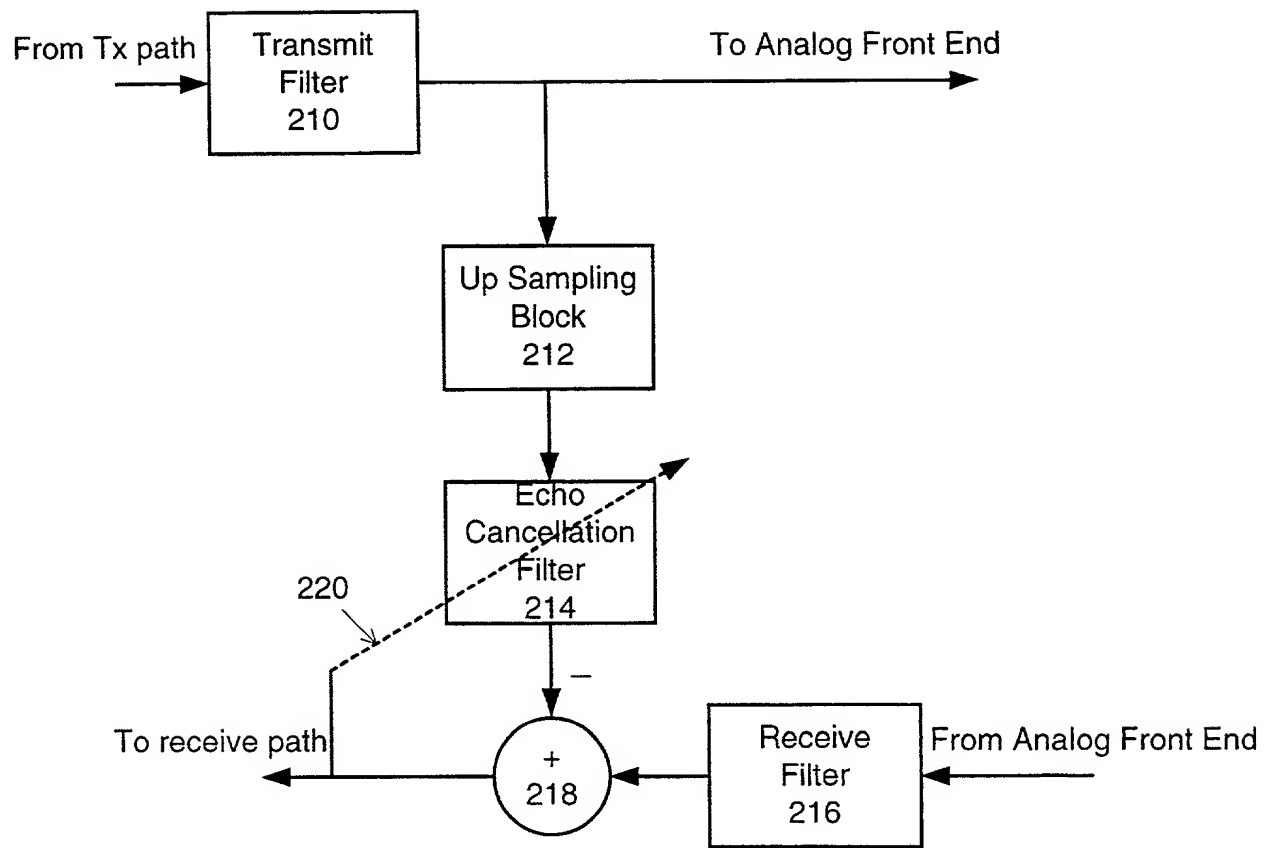


FIG. 2

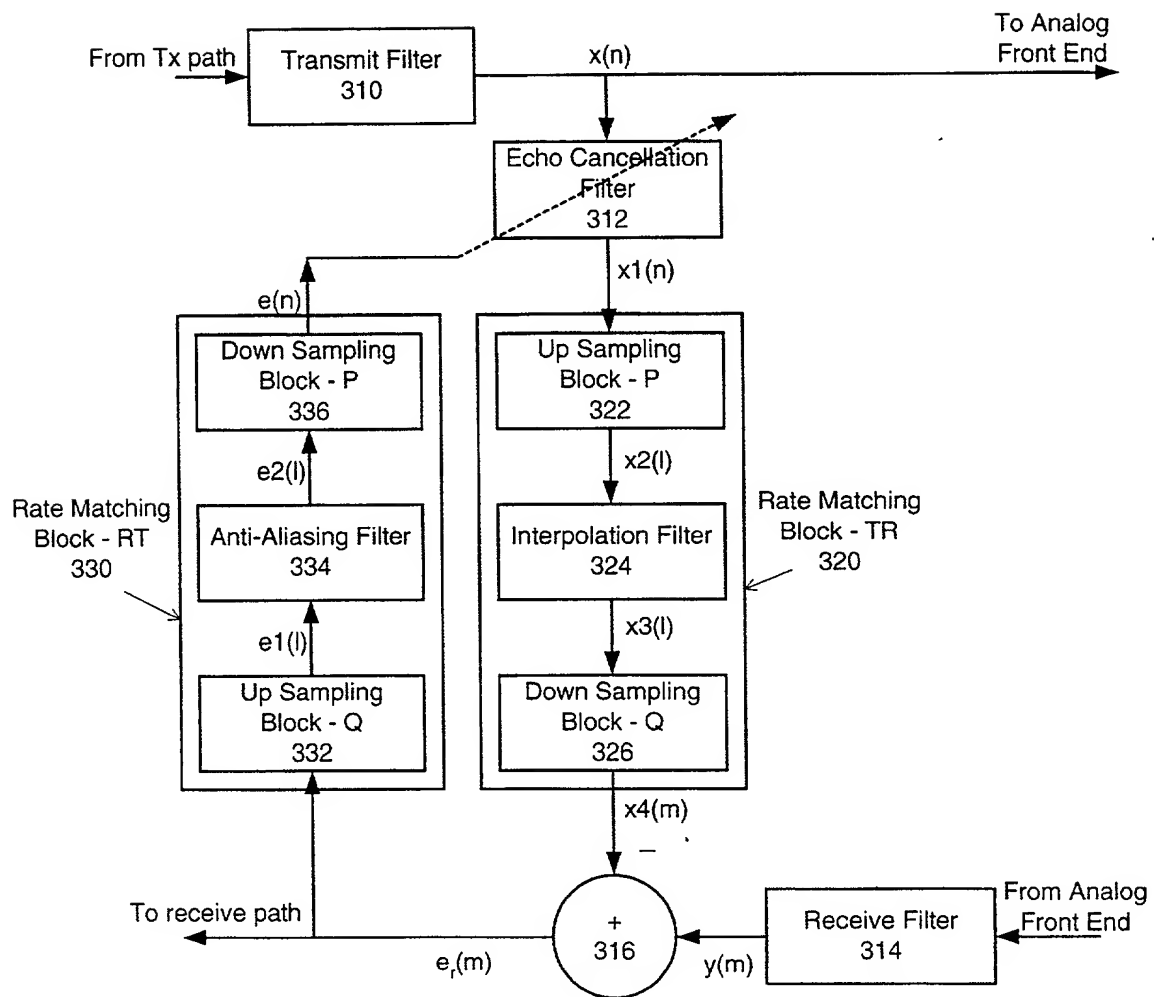


FIG. 3

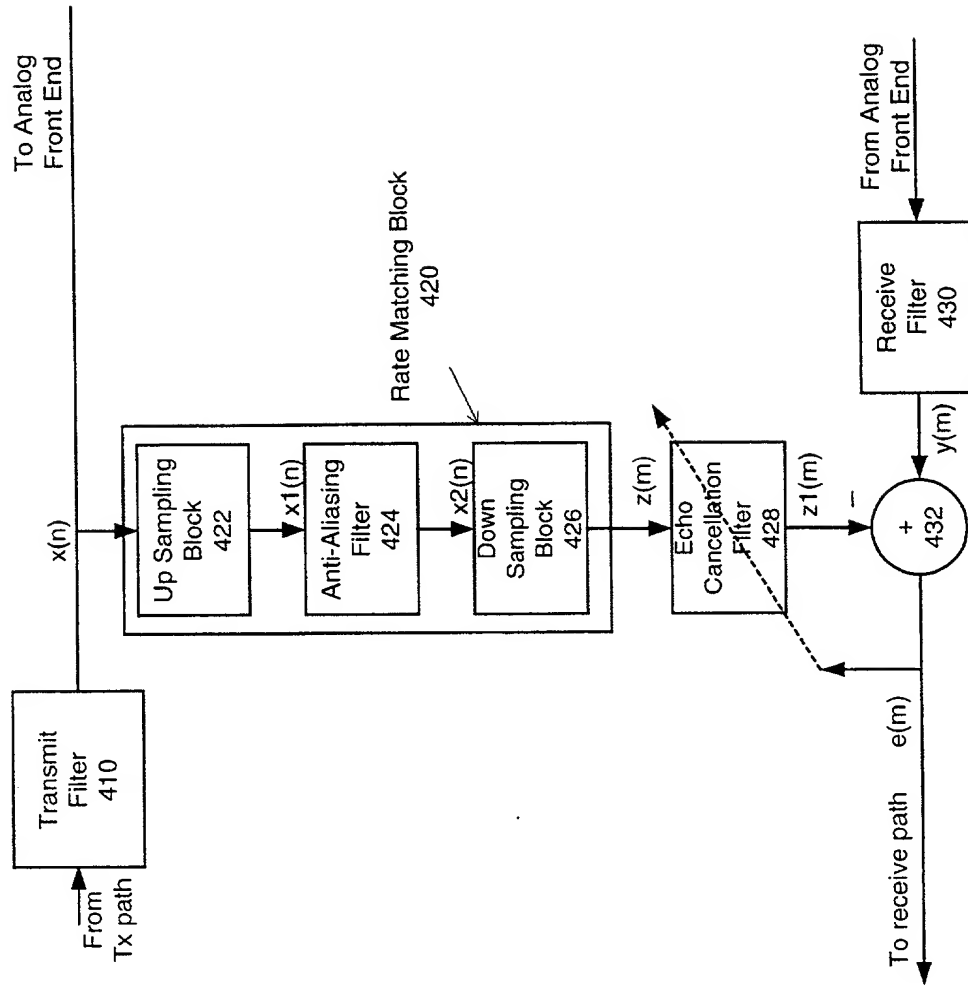


FIG. 4



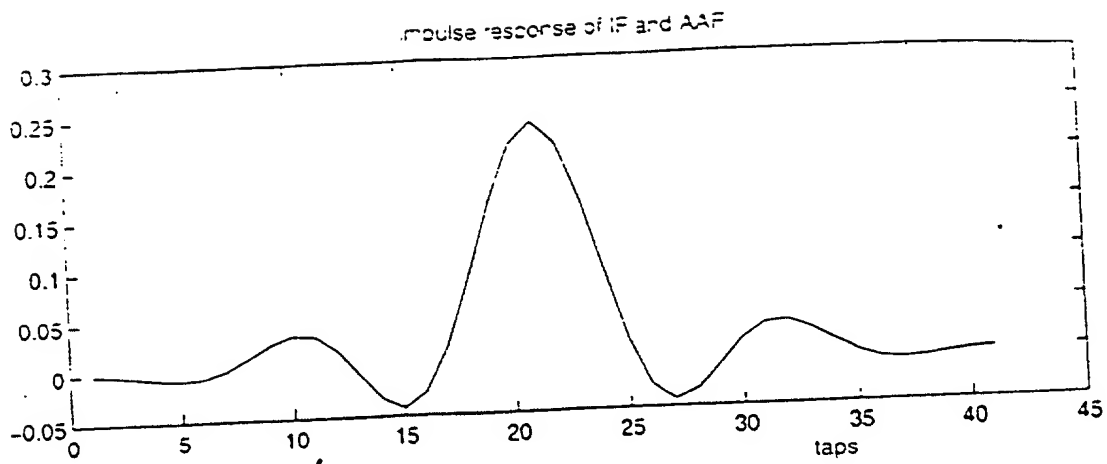


Figure 6

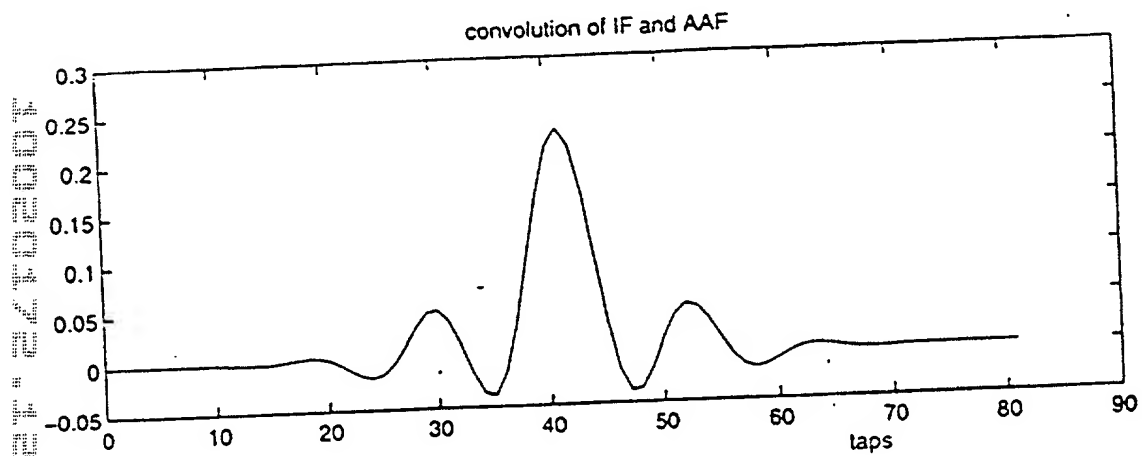


Figure 7

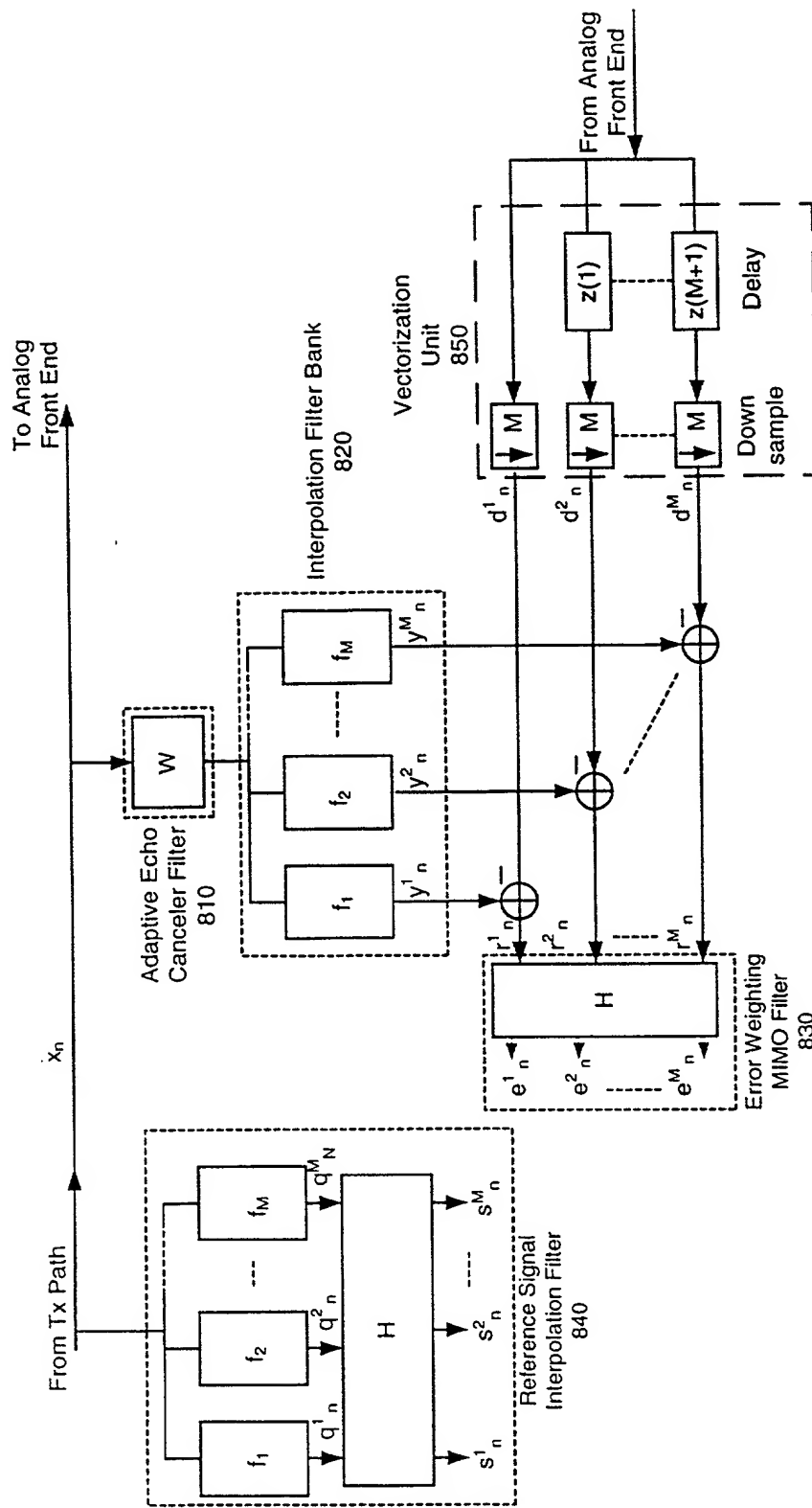


FIG. 8

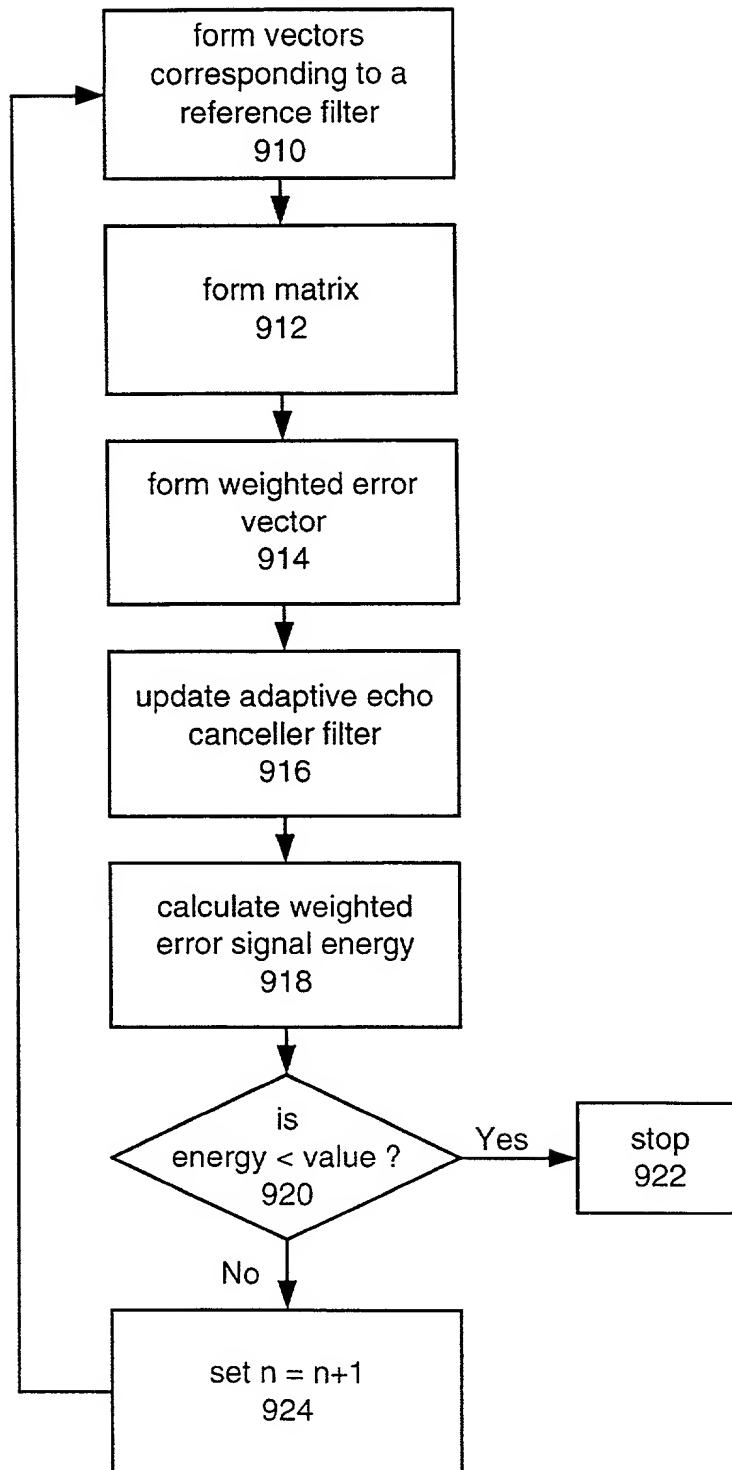


FIG. 9

FIG. 10a

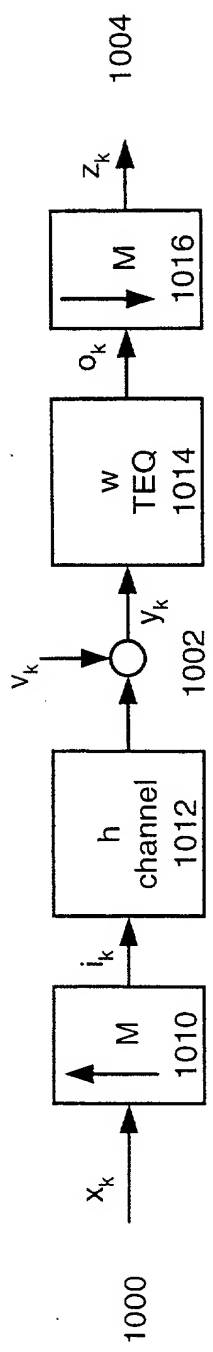


FIG. 10a

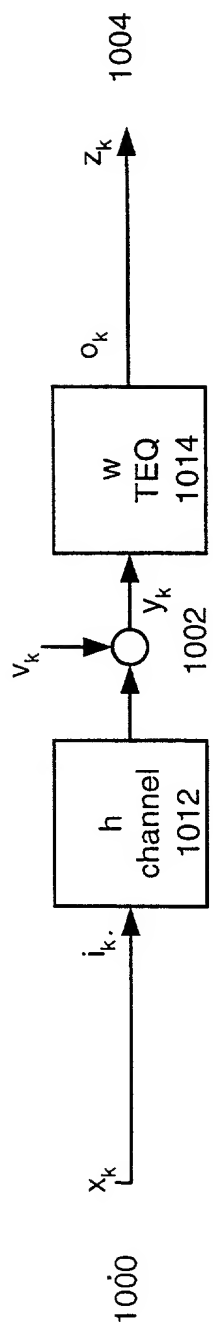


FIG. 10b

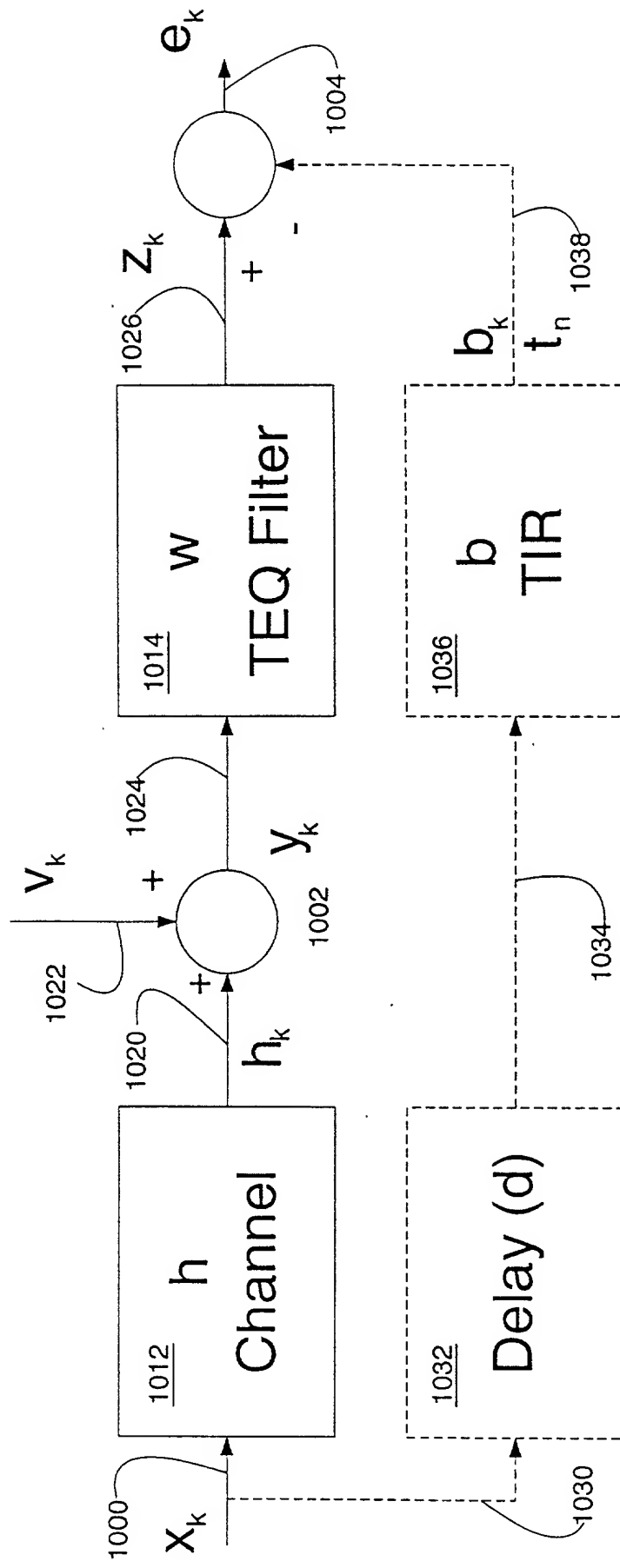


Fig. 10c

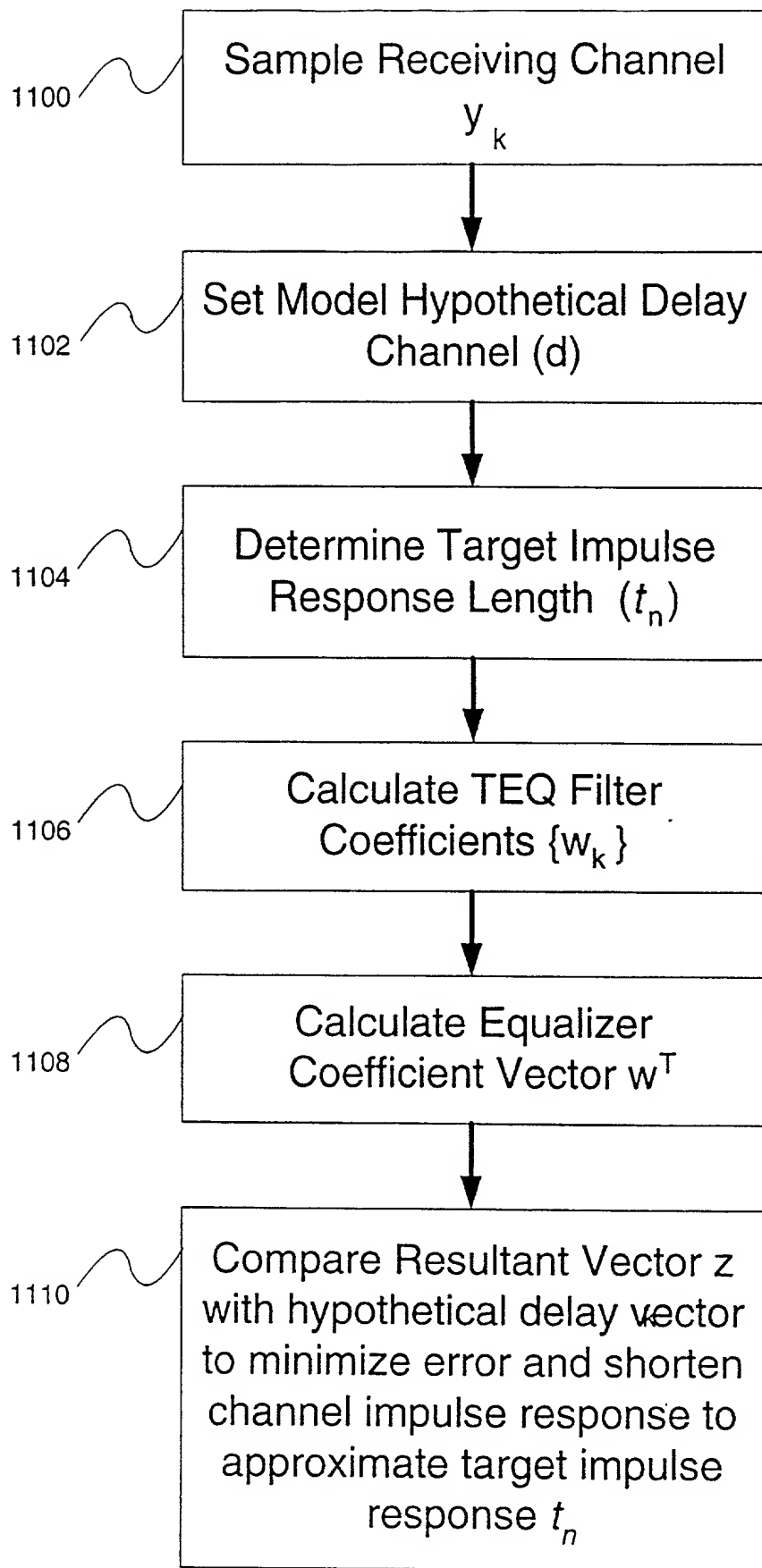


Fig. 11

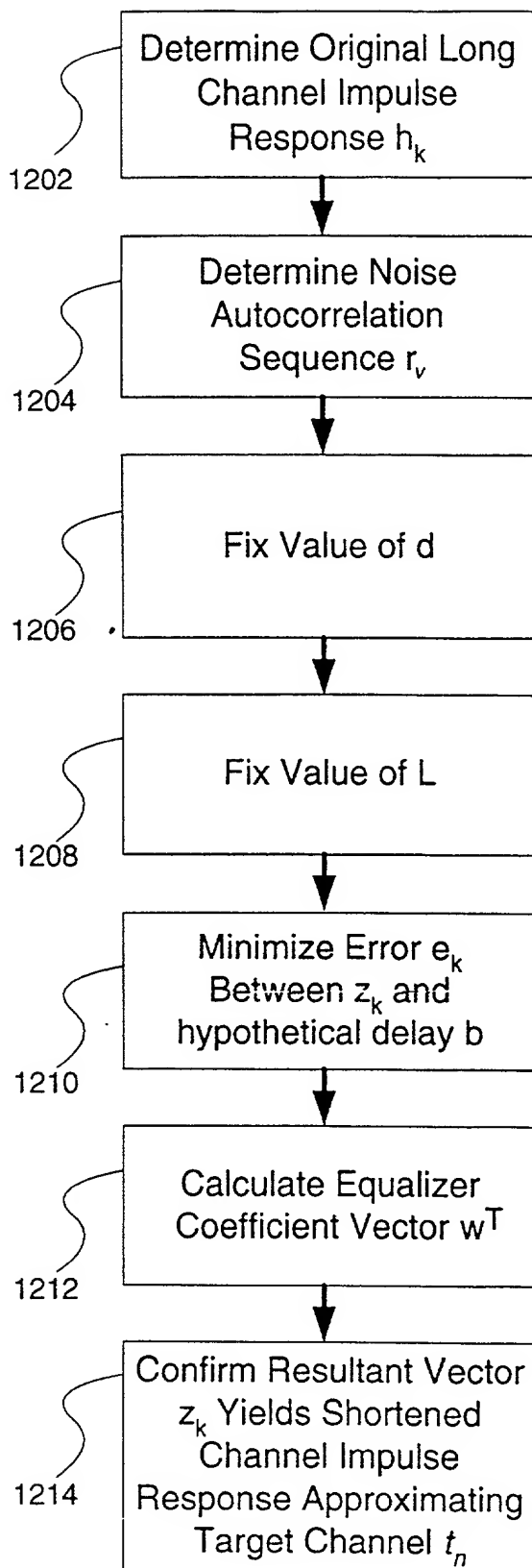


Fig. 12

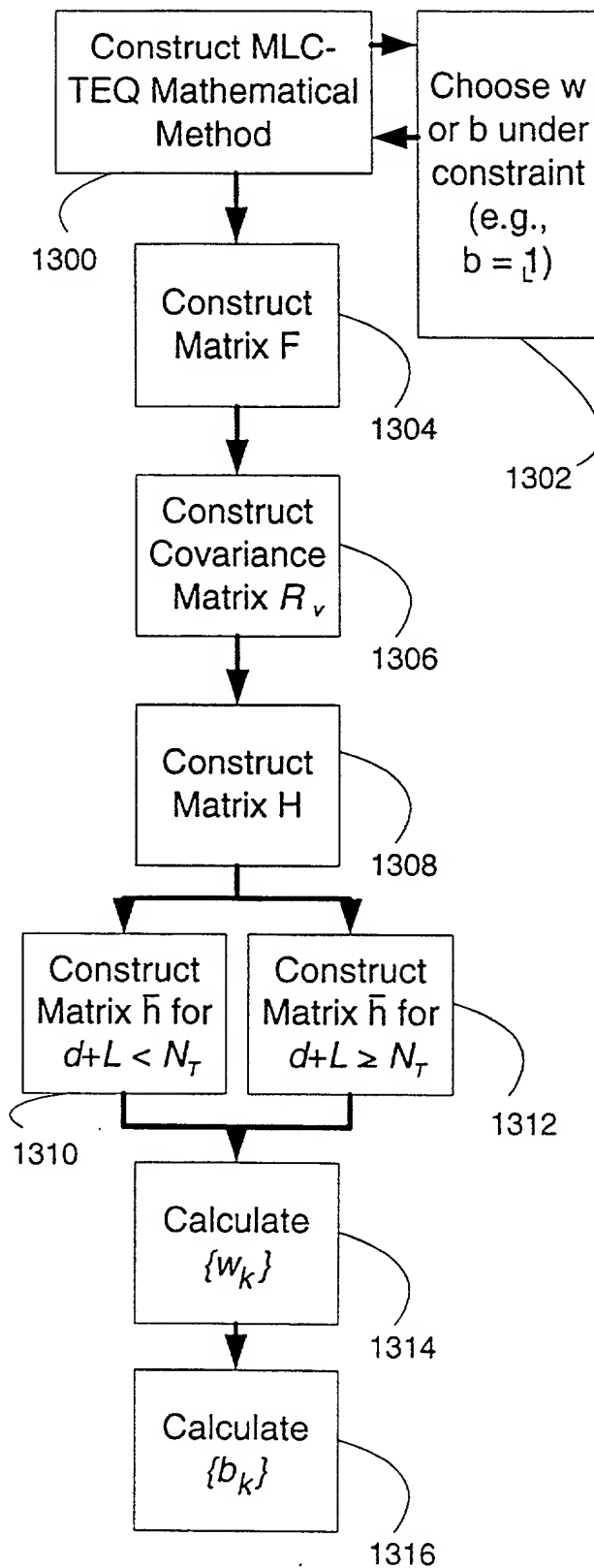


Fig. 13

1400

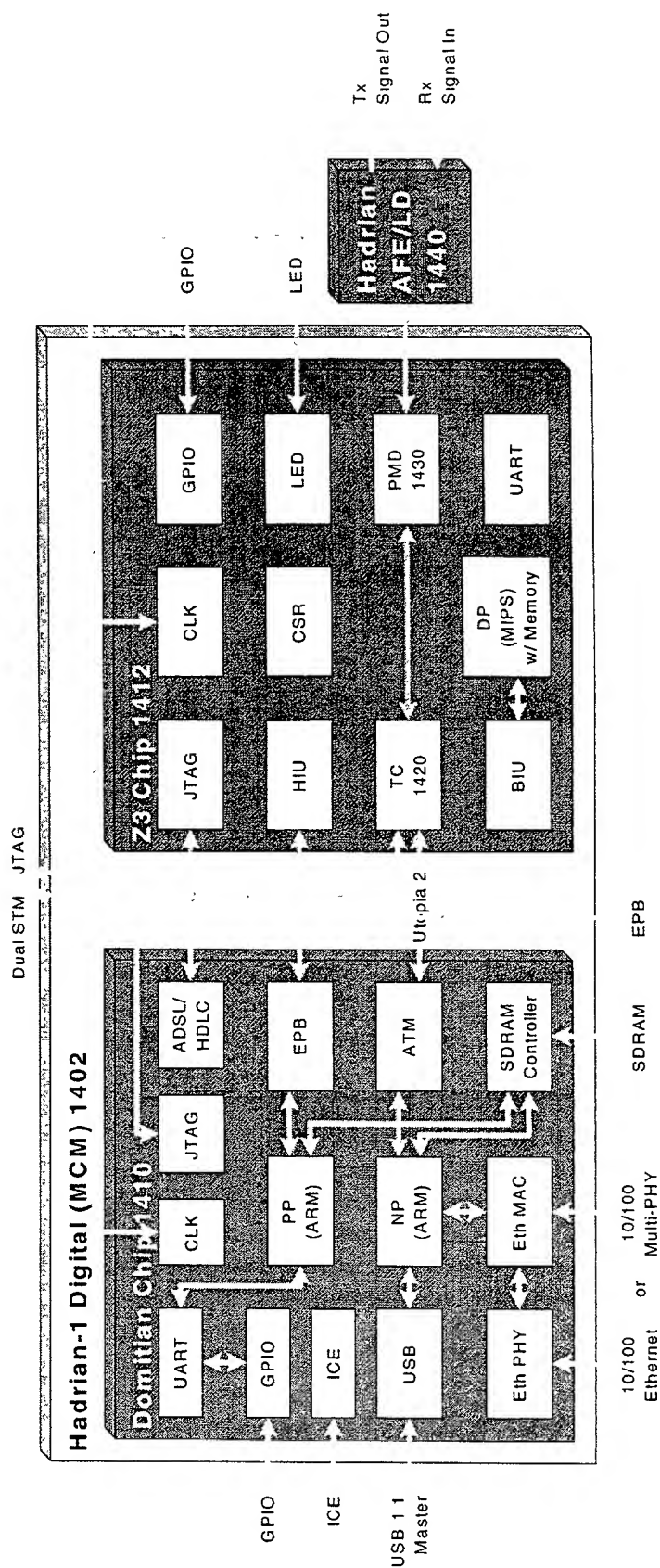
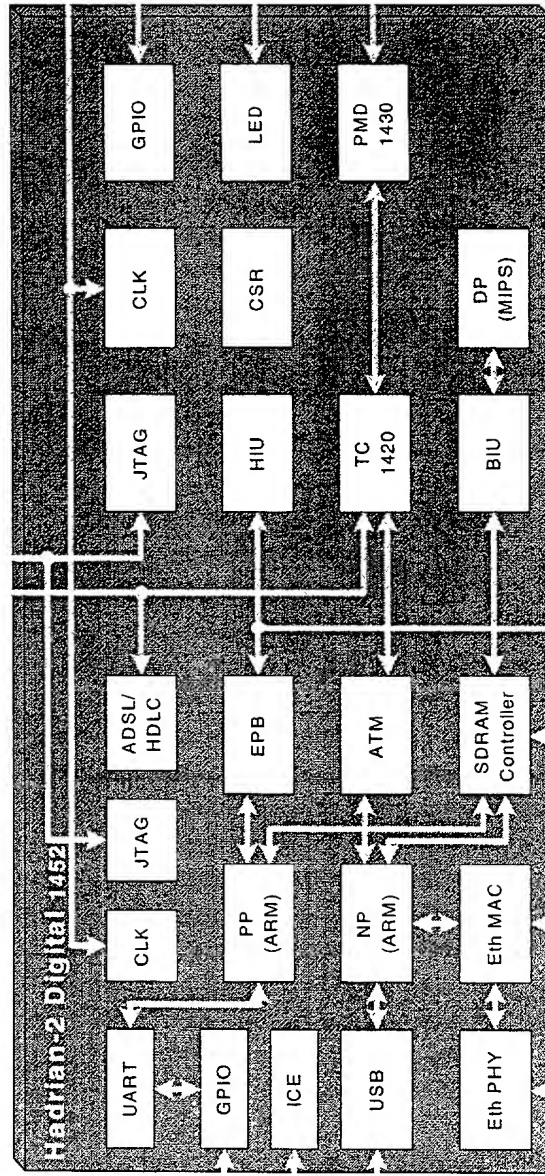


FIG. 14a

1450

Dual STM JTAG



GPIO

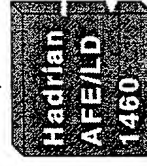
ICE

USB 1.1  
Master

GPIO

LED

Tx  
Signal Out  
Rx  
Signal In



10/100  
Ethernet  
or  
10/100  
Multi-PHY  
SDRAM  
EPB

FIG. 14b

1500

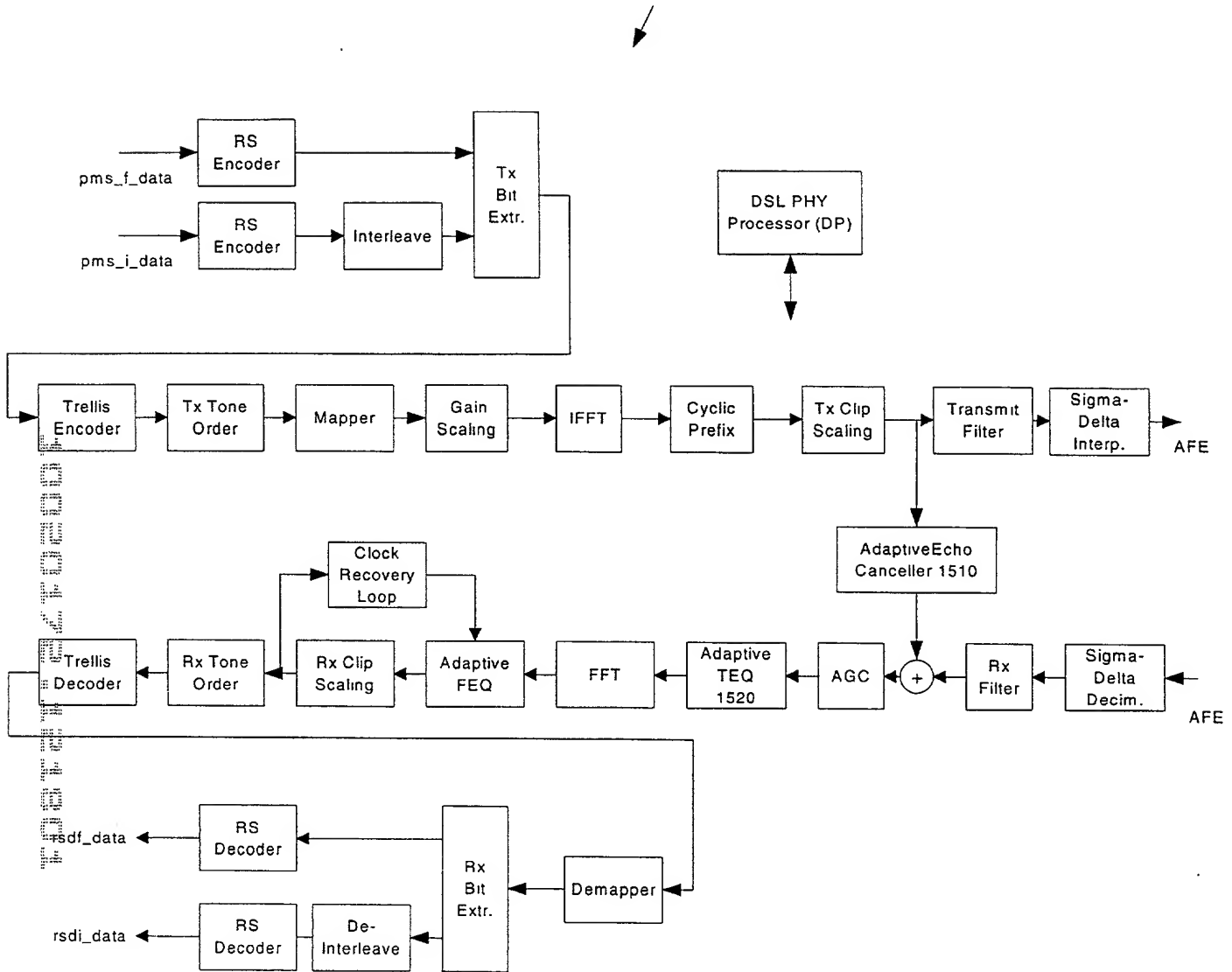


FIG. 15

1600

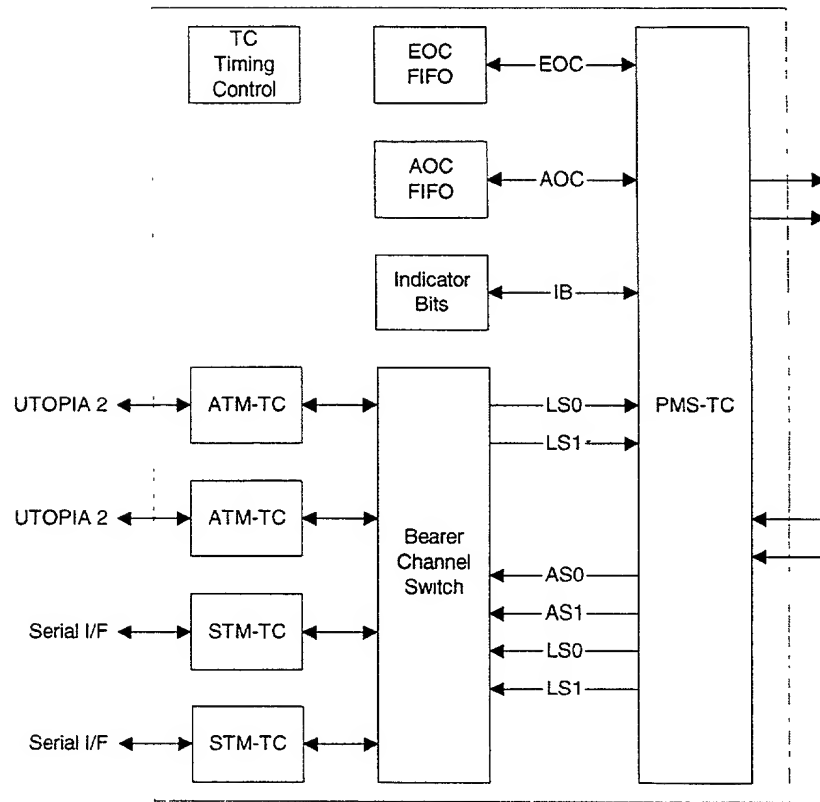


FIG. 16

1700

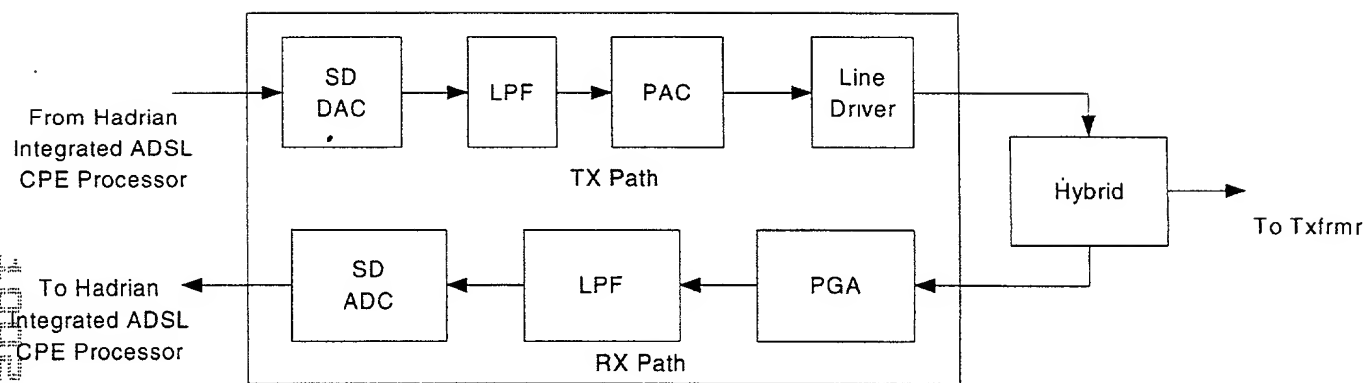


FIG. 17

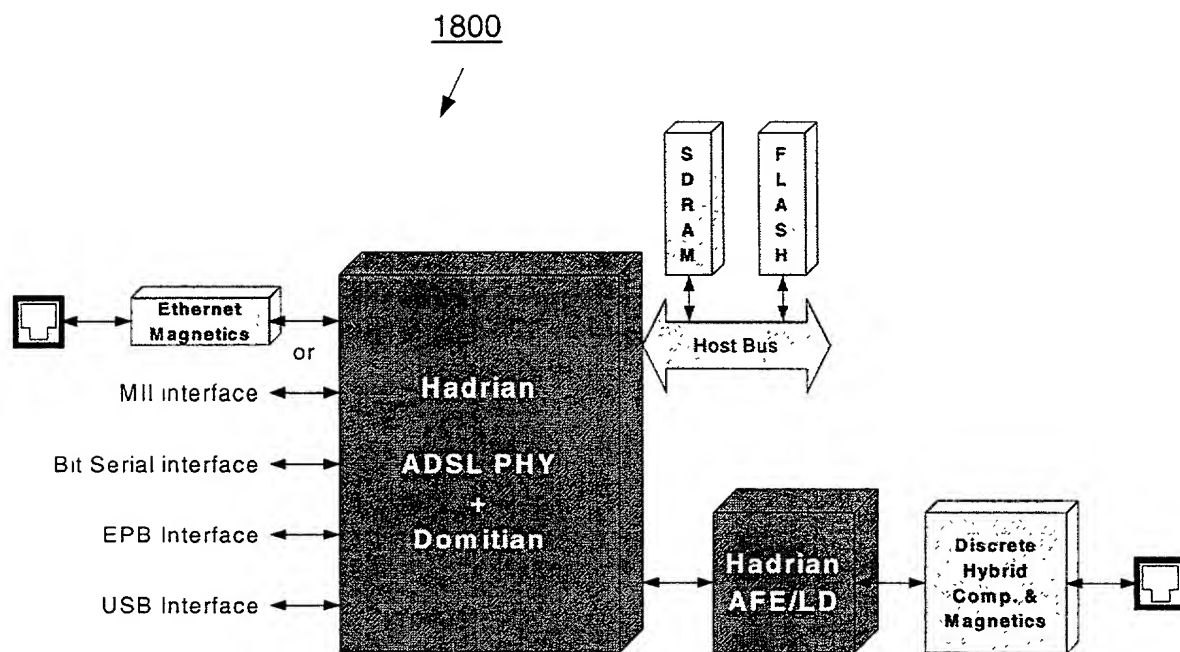


FIG. 18a

1820

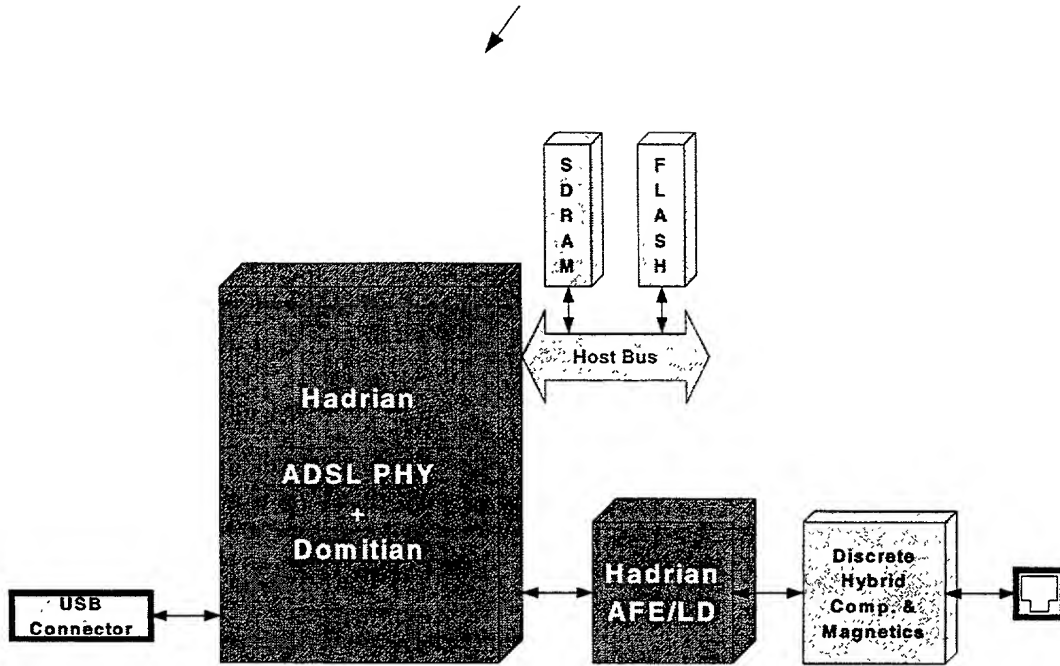


FIG. 18b

1840

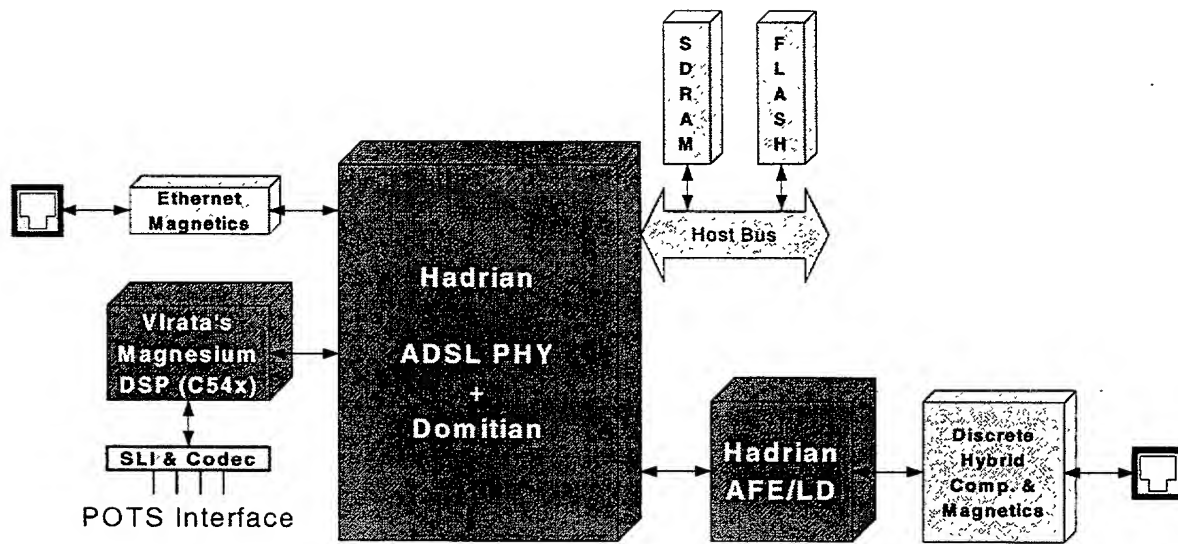


FIG. 18c